- 33.33 Vibration.
- 33.35 Fuel and induction system.
- 33.37 Ignition system.
- 33.39 Lubrication system.

#### Subpart D—Block Tests; Reciprocating Aircraft Engines

- 33.41 Applicability.
- 33.42 General.
- 33.43 Vibration test.
- 33.45 Calibration tests.
- 33.47 Detonation test.
- 33.49 Endurance test.
- 33.51 Operation test.
- 33.53 Engine component tests.
- 33.55 Teardown inspection.
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- 33.61 Applicability.
- 33.62 Stress analysis.
- 33.63 Vibration.
- 33.65 Surge and stall characteristics.
- 33.66 Bleed air system.
- 33.67 Fuel system.
- 33.68 Induction system icing.
- 33.69 Ignitions system.
- 33.71 Lubrication system.
- 33.72 Hydraulic actuating systems.
- 33.73 Power or thrust response.
- 33.74 Continued rotation.
- 33.75 Safety analysis.
- 33.76 Bird ingestion.
- 33.77 Foreign object ingestion—ice.
- 33.78 Rain and hail ingestion.
- 33.79 Fuel burning thrust augmentor.

#### Subpart F—Block Tests; Turbine Aircraft Engines

- 33.81 Applicability.
- 33.82 General.
- 33.83 Vibration test.
- 33.85 Calibration tests.
- 33.87 Endurance test.
- ${\tt 33.88} \quad {\tt Engine} \ {\tt overtemperature} \ {\tt test}.$
- 33.89 Operation test.
- 33.90 Initial maintenance inspection.
- 33.91 Engine component tests.
- 33.92 Rotor locking tests.
- 33.93 Teardown inspection.
- 33.94 Blade containment and rotor unbalance tests.
- ${\tt 33.95} \quad {\tt Engine-propeller} \ {\tt systems} \ {\tt tests}.$
- 33.96 Engine tests in auxiliary power unit (APU) mode.
- 33.97 Thrust reversers.
- 33.99 General conduct of block tests.
- APPENDIX A TO PART 33—INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
- APPENDIX B TO PART 33—CERTIFICATION STANDARD ATMOSPHERIC CONCENTRATIONS OF RAIN AND HAIL

AUTHORITY: 49 U.S.C. 106(g), 40113, 44701-44702, 44704.

SOURCE: Docket No. 3025, 29 FR 7453, June 10, 1964, unless otherwise noted.

NOTE: For miscellaneous amendments to cross references in this Part 33, see Amdt. 33–2, 31 FR 9211, July 6, 1966.

### Subpart A—General

#### § 33.1 Applicability.

- (a) This part prescribes airworthiness standards for the issue of type certificates and changes to those certificates, for aircraft engines.
- (b) Each person who applies under part 21 for such a certificate or change must show compliance with the applicable requirements of this part and the applicable requirements of part 34 of this chapter.

[Amdt. 33–7, 41 FR 55474, Dec. 20, 1976, as amended by Amdt. 33–14, 55 FR 32861, Aug. 10, 1990]

#### §33.3 General.

Each applicant must show that the aircraft engine concerned meets the applicable requirements of this part.

## § 33.4 Instructions for Continued Airworthiness.

The applicant must prepare Instructions for Continued Airworthiness in accordance with appendix A to this part that are acceptable to the Administrator. The instructions may be incomplete at type certification if a program exists to ensure their completion prior to delivery of the first aircraft with the engine installed, or upon issuance of a standard certificate of airworthiness for the aircraft with the engine installed, whichever occurs later.

[Amdt. 33-9, 45 FR 60181, Sept. 11, 1980]

# § 33.5 Instruction manual for installing and operating the engine.

Each applicant must prepare and make available to the Administrator prior to the issuance of the type certificate, and to the owner at the time of delivery of the engine, approved instructions for installing and operating the engine. The instructions must include at least the following: